

Gulf of Mexico Harmful Algal Bloom Bulletin

11 December 2007

NOAA Ocean Service

NOAA Satellites and Information Service

Last bulletin: December 10, 2007

Conditions Report

E Florida: A harmful algal bloom has been identified from southern Volusia to southern Indian River County. Patchy moderate impacts are possible today through Thursday from southern Volusia to northern Indian River County, with patchy high impacts possible in southern Brevard and southern Indian River Counties today through Thursday, December 13.

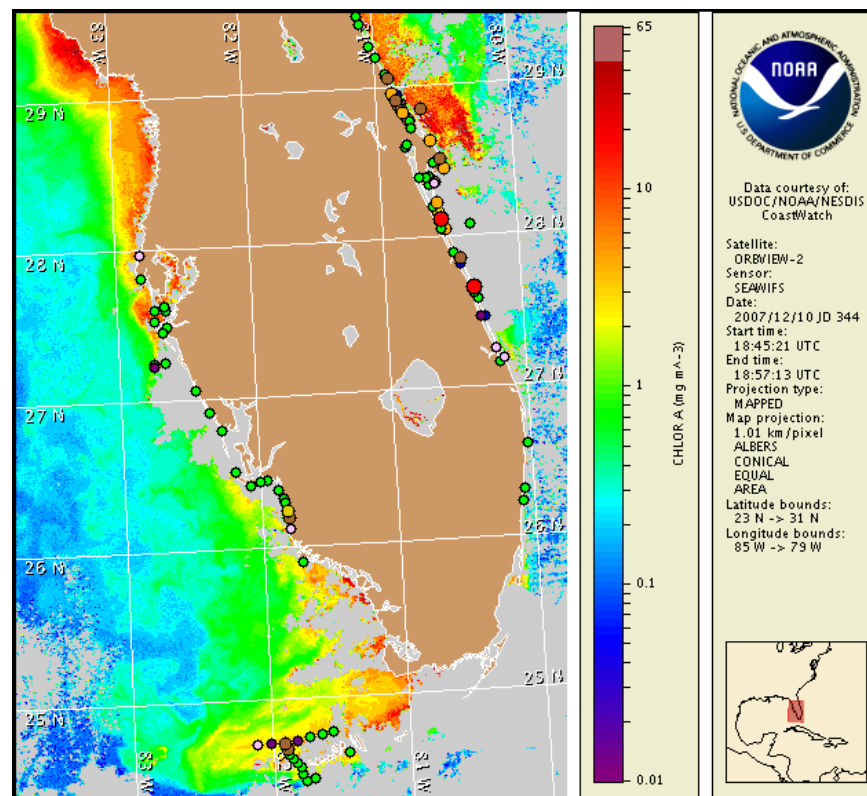
SW Florida: A harmful algal bloom has been identified in northern Collier County. Patchy very low impacts are possible today through Thursday. No other impacts are expected in southwest Florida through Thursday, December 13.

Analysis

This is a supplemental bulletin to South Florida Bulletin number 2007-084 issued Monday December 10, 2007.

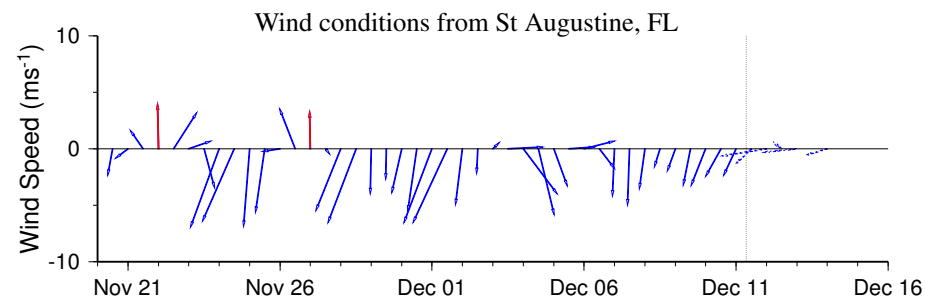
Recent samples confirm that the harmful algal bloom currently located in eastern Florida extends as far south as southern Indian River County. High concentrations of *Karenia brevis* were confirmed at Jaycee Park, in Indian River County, as well as very low concentrations in St. Lucie County at Mangrove Island and South Jetty Park. Background concentrations of *K. brevis* were identified in northern Martin County near Jensen Beach (12/9, FWRI). No *K. brevis* has been identified in Palm Beach or Broward Counties. Onshore winds will likely increase the potential for impacts along the coasts of Brevard and Indian River Counties through Thursday.

- Allen, Keller



Satellite chlorophyll image with possible HAB areas shown by red polygon(s). Cell concentration sampling data from December 3 to 9 shown as red (high), orange (medium), yellow (low b), brown (low a), blue (very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide:

http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

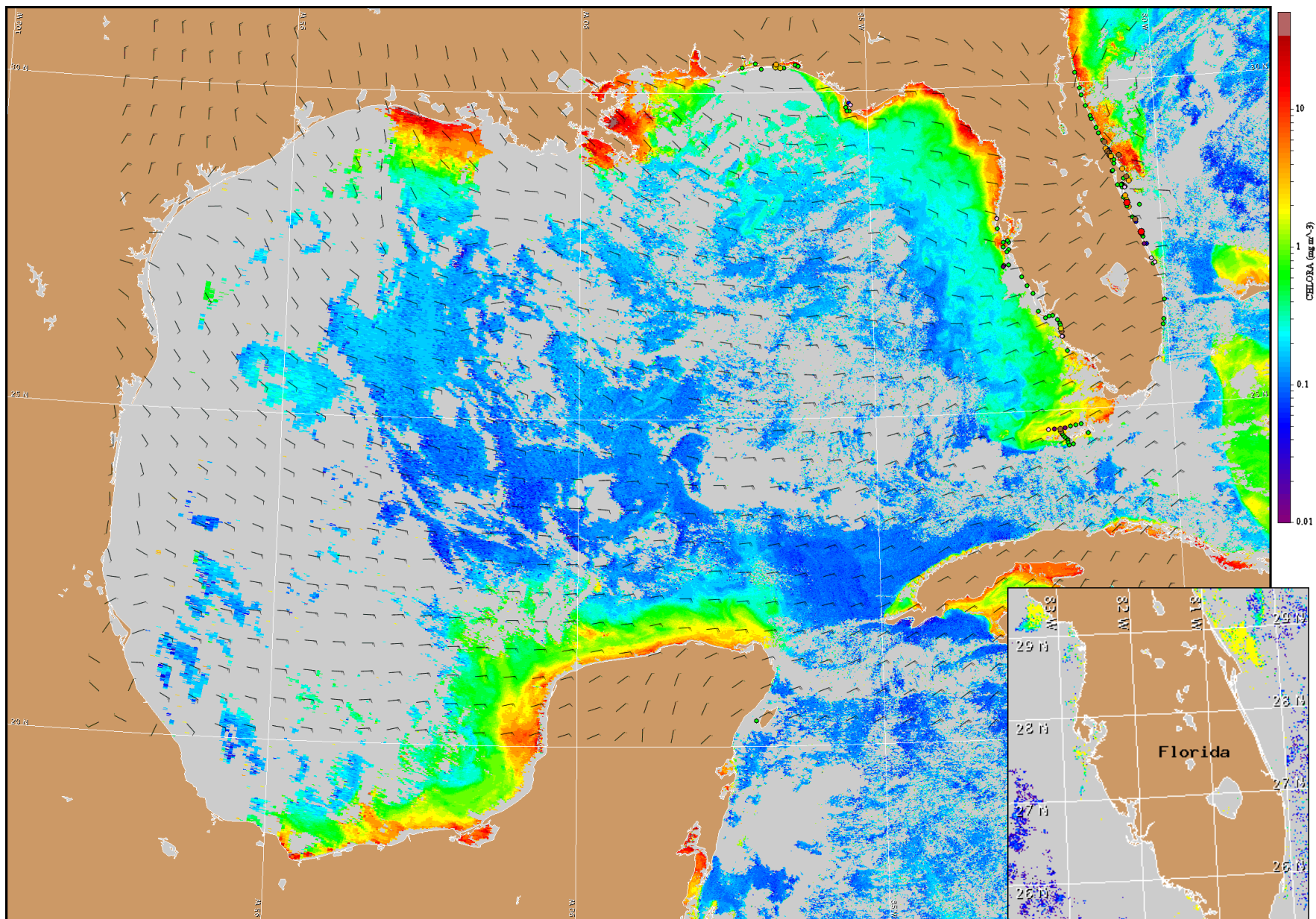


Wind speed and direction are averaged over 12 hours from buoy measurements. Length of line indicates speed; angle indicates direction. Red indicates that the wind direction favors upwelling near the coast. Values to the left of the dotted vertical line are measured values; values to the right are forecasts.

Eastern Florida: Easterly winds today and Wednesday at 10-20 knots (5-10 m/s). Easterly to southeasterly winds Thursday at 10-15 knots (5-8 m/s).

Please note the following restrictions on all SeaWiFS imagery derived from CoastWatch.

1. Data are restricted to civil marine applications only; i.e. federal, state, and local government use/distribution is permitted.
2. Image products may be published in newspapers. Any other publishing arrangements must receive GeoEye approval via the CoastWatch Program.



Satellite chlorophyll image and forecast winds for December 12, 2007 12Z with Cell concentration sampling data from December 3 to 9 shown as red (high), orange (medium), yellow (low b), brown (low a), blue(very low b), purple (very low a), pink (present), and green (not present). For a list of cell count data providers and a key to the cell concentration categories, please see the HABFS bulletin guide: http://www.csc.noaa.gov/crs/habf/habfs_bulletin_guide.pdf

Verified and suspected HAB areas shown in red. Other areas of high chlorophyll concentration shown in yellow (see p. 1 analysis for interpretation).

Wind conditions from Lake Worth, FL

